Claims

1. Gap seal for sealing a gap (3) between two adjacent components (1,2), in particular in turbo machines, with a sealing body (7) from a band (18) that has a cross-section bent in such a way that two contact zones (8) formed on it abut with a preload against two facing sealing surfaces (9) of the components (1,2) and deflect resiliently when the distance between the sealing surfaces (9) is changed, and that a support zone (11) formed between the contact zones (8) is supported vertically to the spring movement on a step (10) formed on one of the components (2) and projects from the latter's sealing surface (9) towards the sealing surface (9) of the other component (1).

2. Gap seal according to Claim 1,
characterized in that
the gap (3) connects two spaces (4,5) with different pressures, whereby the sealing body (7) is supported on that side of the step (10) that faces the space (4) with the higher pressure.

3. Gap seal according to Claim 2,
characterized in that
the sealing body (7) has a hollow profile (13) that is open on one side of its cross-section, whereby a profile opening (14) faces the space (4) with the higher pressure.

4. Gap seal according to one of Claims 1 to 3,

characterized in that
the band (18) consists of correspondingly bent spring steel.

5. Gap seal according to one of Claims 1 to 4,
characterized in that
the two sealing surfaces (9) of the components (1,2) are constructed level and extend parallel to each other, and that the two contact zones (8) are located on a straight line that is vertical to the sealing surfaces (9).

6. Gap seal according to one of Claims 1 to 5,
characterized in that
the band (18) has a C-shaped profile.

7. Gap seal according to one of Claims 1 to 5,
characterized in that
the profile of the band (18) has a U-shaped center section (18) with the support zone (11) between two end sections (15), whereby the end sections (15) are bent outward in a rounded way and are provided with the contact zones (8).

8. Gap seal according to one of Claims 1 to 7,
characterized in that
contact bodies (17) provided with contact zones (8) are formed on the band (18).

9. Gap seal according to one of Claims 1 to 8,
characterized in that
the step (10) projects from the associated sealing surface (9) to such an extent that the shaped bend of the sealing body (7) also remains in the elastic range when step (10), because of a corresponding relative movement of the

components (1,2), comes to abut against the opposite sealing surface (9) or on the opposite component (1).

10. Gap seal according to one of Claims 1 to 9,
characterized in that
at least one of the components (1,2) is a guide vane or a rotor vane or a heat shield element of a turbine or of a compressor.

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